Project Documentation for Quality Compliance

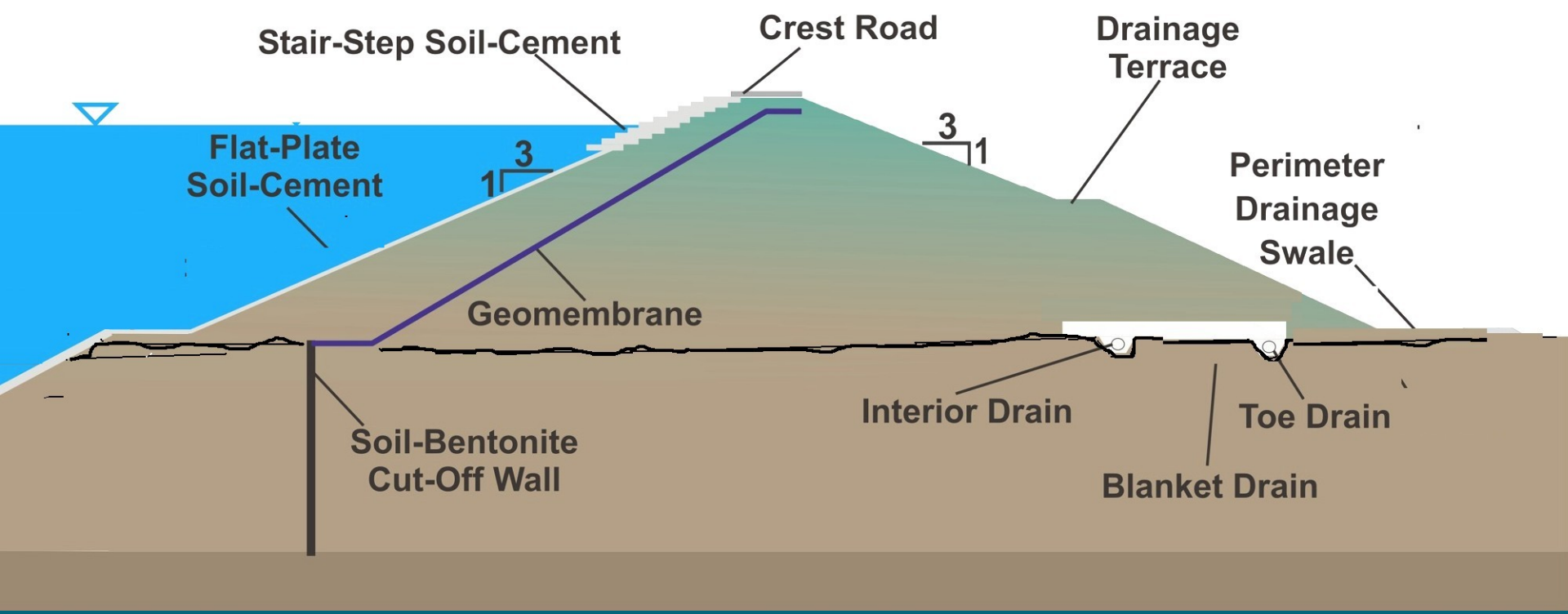
US Corps of Engineers
New Orleans District
December 13, 2005

C. W. Young Reservoir

- 15 Billion Gallons
- 1,100 Acres
- 15,000,000 CYs
- Depth, 30-65 Ft.
- Waste Clay Disposal
  725,000 Cubic Yards
  (Soft Phosphatic clay
- 1,050 Acres of Wetland Mitigation Work

Tampa Bay Reservoir

Elements of the Embankment



Stringent Compliance to Allow Certification to Fill

- Florida Has No Dam Safety Requirements
- Documented Plan for QA/QC
- Monthly QA/QC Report (All Soils Tests)
- Quality Management Report
- Water Recharge Reporting
- CONFIRM TOEING OF EACH SLURRY WALL ACTIVITY and EACH COMPACTION TEST

QA: Documented Test Results With NO Excursions

- 15,000 Embankment density tests
- 1,100 Concrete and soil-cement tests
- 500 Soil-cement durability tests
- 200 Soil-bentonite permeability tests
- 1,000 Geo-membrane liner tests

IF IT AIN'T A
CAT
IT'S A DOG

Innovative Compliance Tracking

- GPS location of tests
- Computerized Logging System with Retesting
- CADD 3 D Citing of each test
- Database summary tables for final results, tests, retests, and documentation

Cut-off wall equipment

Deploying Geomembrane

Covering the Geomembrane

Transporting Soil-cement

Downstream slope view

Mitigation Areas

- 1,050 Total Acres
- Created Wetlands
- Over 1,000,000 Plantings
- Strict Quality Control of Muck
- Successful Plant Growth
- Results – “Excellent Growth”